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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/970,297	10/02/2001	Sean S. Chen	NSC-P05052	9656
7590 04/11/2006			EXAMINER	
WAGNER, MURABITO & HAO LLP			CUNNINGHAM, TERRY D	
Third Floor Two North Ma	rket Street		ART UNIT PAPER NUMBE	
San Jose, CA 95113			2816	

Please find below and/or attached an Office communication concerning this application or proceeding.

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provision of 37 CFR 1.138(a). In no event, however, may a reply be timely filled after OX (b) MONTH'S from the behalic under the provision of 37 CFR 1.138(a). In no event, however, may a reply be timely filled after OX (b) MONTH'S from the behalic under the provision of 37 CFR 1.138(a). In no event, however, may a reply be timely filled after the OX (b) MONTH'S from the behalic described the oxide of the communication. The provision of Claims 4) Claim(s) 1-4.6-8.11-13.15-21 and 23 is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 6) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 7) The specification is objected to by the Examiner. 8) The specification is objected to by the Examiner. 10) The drawing(s) filled on 20 October 2001 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in aboyance. See 37 CFR 1.35(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some *0) None of: 1. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).									
Examiner		Application No.	Applicant(s)	-					
Terry D. Cunningham A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. The period for reply apelied a power is less than thirty (30) days, a terry to the terry specified above is less than thirty (30) days, a terry to the making days of the considered timety. If the period for reply apelied above is less than thirty (30) days, a terry period the profit of the period for reply apelied above, the manifor date of the period for reply apelied above, the maniform dantery period with apply within the statistory minimum of thirty (30) days will be considered timety. If the period for reply apelied above, the maniform danter period with apply within the statistory minimum of thirty (30) days will be considered timety. If the period for reply apelied above, the maniform darker period with apply within the statistory minimum of thirty (30) days will be considered timety. If the period for reply apelied above, the maniform darker period with period with the precision of this communication, even if timety fleet, may reduce this communication. Any price reduced by the Office later than three months after the maniform date of this communication. The period for reply apelied to a communication of the date of this communication. The period for reply apelied to a communication of the date of this communication. The specific time application is condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quay/e, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-4.6-8.11-13.15-21 and 23 is/are replected. The period for the profit period perio		09/970,297	CHEN, SEAN S.						
The MAILING DATE of this communication appears on the cover sheet with the correspondence address - Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions for many be evaluated under the provision of 37 CFR 1.73(s), In no event, novever, may a reply be timely filled set of the period for reply specified above its less blank they (30 days, a reply within the satisfactory minimum of birty (30) stays, as will be considered timely. If the period for reply specified above, the maximum statisfup period will be period for reply specified above, the maximum statisfup period will be period for reply settlem the relating state of the period for reply settlem the relating state of the period for reply settlem the relating state of the period for reply settlem the relating state of the communication. Failure for reply settlem set or extended period for reply with me set or extended period for reply settlem the relation of the communication. Failure for reply settlem the relation of the communication of the communication of the communication. Failure for period for reply settlem the relation of the communication of the communication of the communication. The period for reply settlem the relation of the communication of the communication of the communication. The period for reply settlem the relation of the communication of the communication. The period for reply settlem the relation of the communication of the communication of the communication. The period for reply settlem the relation of the communication of the communication of the reply settlem the relation of the reply settlem the relation of the communication of the period of the communication of the reply settlem the relation of the reply settlem the relation of the relation of the reply settlem the relation of the relation of the relation of the relatio	Office Action Summary	Examiner	Art Unit						
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THE MALING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provision of 37 CPR 1.13(a). In no event, however, may a reply be timely filled after SIX (b) MONTHS from the mailing date of this communication. Failure is reply within the set or extended per the communication. Failure to reply within the set or extended per the accommunication. Failure to reply within the set or extended per the accommunication. Failure to reply within the set or extended per the accommunication after the mailing date of this communication, even if timely filled, may reply tended to the communication. Failure to reply within the set or extended per the accommunication after the mailing date of this communication, even if timely filled, may repluce any secured plates the mailing date of this communication, even if timely filled, may repluce any secured plates the mailing date of this communication, even if timely filled, may repluce any secured plates the mailing date of this communication. Any reply received by the Other Accommunication is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ○ Claim(s) 1-4.6-8.11-13.15-21 and 23 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ○ Claim(s) is/are allowed. Claim(s) is/are allowed. Claim(s) is/are allowed. Claim(s) are subjected to restriction and/or election requirement. Application Papers 9) □ The precification is objected to by the Examiner. 10) ○ The drawing(s) filled on 20 October 2001 is/are: a) ○ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.15(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to See 37 CFR 1.121(d). The oath or declaration is objected to by the Examiner. Note the attached Offi	The MAILING DATE of this communication a Period for Reply	appears on the cover sheet wi	th the correspondence address						
1)⊠ Responsive to communication(s) filed on <u>06 September 2005</u> . 2a)⊠ This action is FINAL. 2b)⊠ This action is non-final. 3)□ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4)⊠ Claim(s) <u>1-4,6-8,11-13,15-21 and 23</u> is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 6)⊠ Claim(s) is/are allowed. 6)⊠ Claim(s) are subjected to is/are rejected. 7)□ Claim(s) are subject to restriction and/or election requirement. Application Papers 9)□ The specification is objected to by the Examiner. 10)⊠ The drawing(s) filed on <u>20 October 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11)□ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12)□ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)□ All b)□ Some * o)□ None of: 1.□ Certified copies of the priority documents have been received. 2.□ Certified copies of the priority documents have been received in Application No 3.□ Copies of the certified copies of the priority documents have been received in Application No 3.□ Copies of the certified copies of the priority documents have been received in Application No 3.□ Copies of the certified copies of the priority documents have been received in Application No 3.□ Copies of the certified copies of the priority documents have been received in Application No 3.□ Information bisclosure Statement(b) (PTO-144) or PTO/5808) 4)□ Interview Summary (PTO-413) 5)□ Notice of Informal Patent Ap	THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, at If NO period for reply is specified above, the maximum statutory perion Failure to reply within the set or extended period for reply will, by standard reply received by the Office later than three months after the maximum status of	N. t 1.136(a). In no event, however, may a re- reply within the statutory minimum of thirt- iod will apply and will expire SIX (6) MON tute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).						
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Application/Control Number: 09/970,297

Art Unit: 2816

DETAILED ACTION

Drawings

The drawings were received on 22 February 2006. These drawings are approved for purposes of examination.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4, 6-8, 11-13, 15-21 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kadanka et al. (USPN 5,621,308) in view of newly cited art to Mietus (USPN 5,666,046). Kadanka et al. disclose, in Fig. 2, a circuit comprising: "a band-gap reference unit (70 and 73, less 54 and 57)"; "a buffer circuit (57)"; and "a single component voltage pull-up device (54)", wherein the "voltage pull-up device" has a "transistors (54)". Kadanka et al. does not expressly disclose that transistor 54 has a "less than 1.0 V_{BE}". However, it is notoriously well known, as expressly taught by Mietus (e.g., see Col. 1, lines 56-67), to use a voltage of 0.7 volts for the expect advantage of using a lower supply voltage (e.g., 0.8 volts). Therefore, it would have been obvious for one skilled in the art to manufacture transistor 48 with "less than 1.0 V_{BE}" for the expected advantage allowing for a lower supply voltage.

Examiner has fully considered Applicant's remarks for the above rejection and has not found them to be persuasive. In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the

Application/Control Number: 09/970,297

Art Unit: 2816

rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

Applicant also questions concerning the claim language stating "said voltage pull-up device acts to reduce a required supply voltage". Examiner is not sure what the question here is. Nowhere does claim state what the "required supply voltage" is. Thus, it can only be seen that this voltage is purely arbitrary. Clearly, the circuit to Kadanka et al. acts to reduce some arbitrary "required supply voltage". As seen, the circuit to Kadanka et al. is only seen to require a voltage having at least three bipolar thresholds. Clearly, some bandgap circuits require four or more bipolar thresholds.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Terry Cunningham whose telephone number is 571-272-1742. The examiner can normally be reached on Monday-Thursday from 7:30 to 6:00.

Application/Control Number: 09/970,297

Art Unit: 2816

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy P. Callahan can be reached on 571-272-1740. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TC April 10, 2006 Terry D. Cunninghan

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